REDUCED HOPPING SEQUENCES FOR A FREQUENCY HOPPING SYSTEM

ABSTRACT OF THE DISCLOSURE

A frequency hopping system such as a Bluetooth system (300) can reduce the number of RF channels it hops during a normal hopping sequence cycle providing for a Reduced Hopping Sequence (RHS). A communication unit operating in the system such as the Bluetooth master unit (302) determines if any of the RF channels has interference. If any of the channels has interference, the Bluetooth master sends a message to one or more slave units (304, 306) informing them of which channels will be removed from the hopping sequence due to potential interference problems. The units will then use the new RHS for their transmissions, thus avoiding the interference problems (e.g., both avoiding interference in the system's receivers and avoiding creating interference on frequencies that are already occupied by other neighboring systems).